### **FINAL**



### PROJECT MANUAL FOR

# LITTLE BARBEE LAKE PUTNEY DITCH DREDGING AND SEDIMENT BASIN CONSTRUCTION

### Submitted To:

BARBEE LAKES PROPERTY OWNERS ASSOCIATION Rural Route 1, Box 150 Warsaw, Indiana 46580

INTERNATIONAL SCIENCE & TECHNOLOGY, INC. 10501 Hague Road Fishers, Indiana 46038

August, 1991

### CONTRACT DOCUMENTS

Document	Description
1.	Advertisement for Bids
2.	Information for Bidders
3.	Bid
4.	Bid Bond
5.	Agreement
6.	Payment Bond
7.	Performance Bond
8.	Notice of Award
9.	Notice to Proceed
10.	Change Order
11.	General Conditions
12.	Special Conditions

### Separate Attachments:

### Contract Drawings

- 1. Cover sheet
- 2. Dredging Plan
- 3. Sections and Details
- 4. Construction Notes and Details

### Permit Applications

State of Indiana Department of Natural Resources Public Lake Law Permit Application

### ADVERTISEMENT FOR BIDS

BARBEE LAKES PROPERTY OWNERS ASSOCIATION
RURAL ROUTE 1, Owner BOX 150
WARSAW, INDIANAAddress 46580
Separate sealed BIDS for the construction of (briefly describe nature, scope, and
major elements of the work)
HYDRAULIC DREDGING OF THE PUTNEY DITCH CHANNEL AND MOUTH AND
CONSTRUCTION OF A SEDIMENTATION BASIN AS SPECIFIED IN THE CONTRACT
DOCUMENTS AND ACCOMPANYING CONTRACT DRAWINGS.
will be received by BARBEE LAKES PROPERTY OWNERS ASSOCIATION
at the office of
until, (Standard Time – Daylight Savings Time),
19, and then at said office publicly opened and read aloud.
The CONTRACT DOCUMENTS may be examined at the following locations:
Copies of the CONTRACT DOCUMENTS may be obtained at the office of
located at
upon payment of \$ for each set.
Any BIDDER, upon returning the CONTRACT DOCUMENTS promptly and in good
condition, will be refunded his payment, and any non-bidder upon so returning the
CONTRACT DOCUMENTS will be refunded \$
Date

### INFORMATION FOR BIDDERS

BIDS will be received by
(herein called the "OWNER"), at
until, 19, and then at said office publicly opened and read
aloud.
Each BID must be submitted in a sealed envelope, addressed to at
Each sealed envelope containing a BID must be plainly marked on the outside as BID for
envelope should bear on the outside the name of the BIDDER, his address, his license number if applicable and the name of the project for which the BID is submitted. If forwarded by mail, the sealed envelope containing the BID must be enclosed in another envelope addressed to the OWNER at

All BIDS must be made on the required BID form. All blank spaces for BID prices must be filled in, in ink or typewritten, and the BID form must be fully completed and

executed when submitted. Only one copy of the BID form is required.

The OWNER may waive any informalities or minor defects or reject any and all BIDS. Any BID may be withdrawn prior to the above scheduled time for the opening of BIDS or authorized postponement thereof. Any BID received after the time and date specified shall not be considered. No BIDDER may withdraw a BID within 60 days after the actual date of the opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the OWNER and the BIDDER.

BIDDERS must satisfy themselves of the accuracy of the estimated quantities in the BID Schedule by examination of the site and a review of the drawings and specifications including ADDENDA. After BIDS have been submitted, the BIDDER shall not assert that there was a misunderstanding concerning the quantities of WORK or of the nature of the WORK to be done.

The OWNER shall provide to BIDDERS prior to BIDDING, all information which is pertinent to, and delineates and describes, the land owned and rights-of-way acquired

or to be acquired.

The CONTRACT DOCUMENTS contain the provisions required for the construction of the PROJECT. Information obtained from an officer, agent, or employee of the OWNER or any other person shall not affect the risks or obligations assumed by the CONTRACTOR or relieve him from fulfilling any of the conditions of the contract.

Each BID must be accompanied by a BID bond payable to the OWNER for five percent of the total amount of the BID. As soon as the BID prices have been compared, the OWNER will return the BONDS of all except the three lowest responsible BIDDERS. When the Agreement is executed the bonds of the two remaining unsuccessful BIDDERS will be returned. The BID BOND of the successful BIDDER will be retained until the payment BOND and performance BOND have been executed and approved, after which it will be returned. A certified check may be used in lieu of a BID BOND.

### BID

Proposal of (hereinafter
called "BIDDER"), organized and existing under the laws of the State of
doing business as*.
To the
(hereinafter called "OWNER").
In compliance with your Advertisement for Bids, BIDDER hereby proposes to perform all WORK for the construction of
in strict accordance with the CONTRACT DOCUMENTS, within the time set forth
therein, and at the prices stated below.
By submission of this BID, each BIDDER certifies, and in the case of a joint BID
each party thereto certifies as to his own organization, that this BID has been arrived at
independently, without consultation, communication, or agreement as to any matter
relating to this BID with any other BIDDER or with any competitor.
BIDDER hereby agrees to commence WORK under this contract on or before a date
to be specified in the NOTICE TO PROCEED and to fully complete the PROJECT within
consecutive calendar days thereafter. BIDDER further
agrees to pay as liquidated damages, the sum of \$for each consecutive cal-
endar day thereafter as provided in Section 15 of the General Conditions.
BIDDER acknowledges receipt of the following ADDENDUM:

<sup>\*</sup>Insert "a corporation", "a partnership", or "an individual" as applicable.

A performance BOND and a payment BOND, each in the amount of 100 percent of the CONTRACT PRICE, with a corporate surety approved by the OWNER, will be required for the faithful performance of the contract.

Attorneys-in-fact who sign BID BONDS or payment BONDS and performance BONDS must file with each BOND a certified and effective dated copy of their power

of attorney.

The party to whom the contract is awarded will be required to execute the Agreement and obtain the performance BOND and payment BOND within ten (10) calendar days from the date when NOTICE OF AWARD is delivered to the BIDDER. The NOTICE OF AWARD shall be accompanied by the necessary Agreement and BOND forms. In case of failure of the BIDDER to execute the Agreement, the OWNER may at his option consider the BIDDER in default, in which case the BID BOND accompanying the proposal shall become the property of the OWNER.

The OWNER within ten (10) days of receipt of acceptable performance BOND, payment BOND and Agreement signed by the party to whom the Agreement was awarded shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the OWNER not execute the Agreement within such period, the BIDDER may by WRITTEN NOTICE withdraw his signed Agreement. Such notice of withdrawal

shall be effective upon receipt of the notice by the OWNER.

The NOTICE TO PROCEED shall be issued within ten (10) days of the execution of the Agreement by the OWNER. Should there be reasons why the NOTICE TO PROCEED cannot be issued within such period, the time may be extended by mutual agreement between the OWNER and CONTRACTOR. If the NOTICE TO PROCEED has not been issued within the ten (10) day period or within the period mutually agreed upon, the CONTRACTOR may terminate the Agreement without further liability on the part of either party.

The OWNER may make such investigations as he deems necessary to determine the ability of the BIDDER to perform the WORK, and the BIDDER shall furnish to the OWNER all such information and data for this purpose as the OWNER may request. The OWNER reserves the right to reject any BID if the evidence submitted by, or investigation of, such BIDDER fails to satisfy the OWNER that such BIDDER is properly qualified to carry out the obligations of the Agreement and to complete the WORK contemplated therein.

A conditional or qualified BID will not be accepted.

Award will be made to the lowest responsible BIDDER.

All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the PROJECT shall apply to the contract throughout.

Each BIDDER is responsible for inspecting the site and for reading and being thoroughly familiar with the CONTRACT DOCUMENTS. The failure or omission of any BIDDER to do any of the foregoing shall in no way relieve any BIDDER from any obligation in respect to his BID.

Further, the BIDDER agrees to abide by the requirements under Executive Order No. 11246, as amended, including specifically the provisions of the equal opportunity clause set forth in the SUPPLEMENTAL GENERAL CONDITIONS.

The low BIDDER shall supply the names and addresses of major material SUP-PLIERS and SUBCONTRACTORS when requested to do so by the OWNER.

Inspection trips for prospective BIDDERS will leave from the office of the

				at	<del></del>	
	The	ENGINEER	is		His	address
s						

BIDDER agrees to perform all of the work described in the Contract Documents for the following unit prices or lump sum. Note: BIDS are to include sales tax and all other applicable taxes and fees.

## BID SCHEDULE Little Barbee Lake Dredging and Sedimentation Basin Construction

ITEM	QUANTITY	UNIT	UNIT COST	TOTAL
1. Mobilization			\$	\$
2. Dredging	1,900	CY	\$	\$
3. Excavation/ Dike Constr.	4,365	CY	\$	\$
4. 15" CMP Outflow Pipe	630	LF	\$	\$
5. 6' Chain Link Fence	1,300	LF	NA	NA
6. Seed/Mulch	3,900	SY	\$	\$
7. Weir Box	1	EA	\$	\$
SUBTOTAL:				\$
8. Deconstruction				\$
TOTAL COST				\$

### Notes:

- CMP costs are for installation and removal only. Pipe is to be purchased by the BLPOA.
- 2. Chain link fence to be installed/removed by a third party.

۷0.	ITEM	UNIT	UNIT PRICE	AMOUNT	TOTAL PRICE		
	÷			•			
				•			
		•	٠				
	•						
		• •					
TAL	OF BID				\$		
MP S	SUM PRICE (if a	pplicable) Respectfull	y submitted:		\$		
			Signature		ddress		
			Title		Date		

(SEAL - if BID is by a corporation)

Attest \_\_\_\_\_

Document No. 3 Bid: page 3 of 3

### BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersign	ned,
	as Principal, and
	as Surety, are hereby
held and firmly bound unto	as OWNER
in the penal sum of	
for the payment of which, well and truly to be made, we herel	by jointly and severally
bind ourselves, successors and assigns.	
Signed, thisday of	, 19
The Condition of the above obligation is such that whereas the	Principal has submitted
to	a certain BID,
attached hereto and hereby made a part hereof to enter into a co	

### NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID.

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said Surety does herby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (L.S.)

Surety

By:

IMPORTANT-Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

### **AGREEMENT**

THIS AGREEMENT, made this	day of, 19, by
and between	, hereinafter called "OWNER"
( and ), an individual,	,
and	doing business as (an individual,) or (a
partnership,) or (a corporation) hereinafter	called "CONTRACTOR".
WITNESSETH: That for and in considerati	ion of the payments and agreements herein-
after mentioned:	
1. The CONTRACTOR will commence a	and complete the construction of
2. The CONTRACTOR will furnish all	of the material, supplies, tools, equipment,
	construction and completion of the PROJECT
described herein.	
3. The CONTRACTOR will commence	the work required by the CONTRACT DOC-
UMENTS within calendar da	ys after the date of the NOTICE TO PRO-
CEED and will complete the same within _	calendar days unless the period
for completion is extended otherwise by the	CONTRACT DOCUMENTS.
4. The CONTRACTOR agrees to perform	rm all of the WORK described in the CON-
TRACT DOCUMENTS and comply with the	terms therein for the sum of \$,
or as shown in the BID schedule.	·
5. The term "CONTRACT DOCUMENTS	3" means and includes the following:
(A) Advertisement For BIDS	
(B) Information For BIDDERS	
(C) BID	
(D) BID BOND	
(E) Agreement	

(F)	General Conditio	ns		
(G)	SUPPLEMENTAL	L GENERAL COND	ITIONS	
(H)	Payment BOND			
(I)	Performance BO	ND		
<b>(J)</b>	NOTICE OF AWA	ARD		
(K)	NOTICE TO PRO	CEED		<u> </u>
(L)	CHANGE ORDE	R		
(M)		_		d dated,
(N)	SPECIFICATION	IS prepared or iss	ued by	
(0)		, 19	-	
, (O)	ADDENDA:		•	4
		, dated	•	
		, dated		
		, dated	,	
	No	, dated	, 19	_
	No	, dated	, 19	_
	No	, dated	, 19	_
6. The	e OWNER will pa	y to the CONTRAC	CTOR in the ma	nner and at such times as
set forth	in the General (	Conditions such ar	nounts as requ	ired by the CONTRACT
DOCUME	ENTS.			
7. Th	is Agreement sha	ll be binding upor	all parties he	reto and their respective
heirs, exe	cutors, administra	tors, successors, an	d assigns.	
IN WITN	ESS WHEREOF, (	he parties hereto	have executed,	or caused to be executed
by their	duly authorized o	officials, this Agre	ement in (	) each of

which shall be deemed an original on the date first above written.

	BY
	Name
	(Please Type )
(SEAL) ATTEST:	Title
Name(Please Type)	
Title	
	CONTRACTOR:
	ВҮ
	Name(Please Type)
	Address
(SEAL)	•
ATTEST:	
Name(Please Type)	
(riesse (ype)	

OWNER:

### PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

### \_\_\_\_\_, hereinafter called Principal. and (Name of Surety) (Address of Surety) hereinafter called Surety, are held and firmly bound unto (Address of Owner) hereinafter called OWNER, in the penal sum of \_\_\_\_\_\_Dollars, \$[\_\_\_\_] in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents. THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the \_\_\_\_\_day of \_\_\_\_\_ 19\_\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction of:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, SUBCONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK, and for all labor, performed in such WORK whether by SUBCONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrumen	nt is ex	secuted in <u>(number)</u> counterparts, ea	ch
one of which shall be deemed an original 19			
ATTEST:			
		Principal	
(Principal) Secretary	-		
(SEAL)	Ву		(s)
	-	(Address)	_
Witness as to Principal			
(Address)	•		
ATTEST:	By	. Surety	
	2,	Attorney-in-Fact	_
Witness as to Surety	-	(Address)	
(Address)			

NOTE: Date of BOND must not be prior to date of Contract. If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the P. OIECT is located.

### PERFORMANCE BOND

	(Name of Contractor)
	(Address of Contractor)
(Corporation, Partnership, or Individual)	hereinafter called Principal, and
	(Name of Surety)
	(Address of Surety)
hereinafter called Surety, are he	eld and firmly bound unto
	The state of the s
	(Name of owner)
· · · · · · · · · · · · · · · · · · ·	
	(Address of Owner)
hereinafter called OWNER, in th	ne penal sum of
	Dollars, \$()
in lawful money of the United S be made, we bind ourselves, su these presents.	States, for the payment of which sum well and truly to accessors, and assigns, jointly and severally, firmly by
into a certain contract with the (	LIGATION is such that whereas, the Principal entered DWNER, dated theday of, o attached and made a part hereof for the construction

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED. FURTHER, that no final settlement between the OWNER and the CON-TRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied. IN WITNESS WHEREOF, this instrument is executed in \_\_\_\_\_ counterparts, each one of which shall be deemed an original, this the \_\_\_\_day of ATTEST: (Principal) Secretary (SEAL) (Witness as to Principal) (Address) ATTEST: (Surety) Secretary (SEAL) Witness as to Surety (Address)

NOTE: Date of BOND must not be prior to date of Contract.

If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

### NOTICE OF AWARD

To:				
				•
PROJECT Description	n:			
	· · · · · · · · · · · · · · · · · · ·		j	
The OWNER has WORK in response to and Information for B	s considered the BID its Advertisement for idders.	submitted by r Bids dated _	y you for the al	bove described 9
You are required nish the required CC cates of insurance will If you fail to exe days from the date orights arising out of t feiture of your BID B granted by law.  You are required	by the Information for DNTRACTOR'S Performing the him ten (10) calendar actual said Agreement of this Notice, said Ohe OWNER'S accepta OND. The OWNER was to return an acknow	or Bidders to e rmance BON days from the and to furnis WNER will b nce of your E vill be entitled	execute the Agre D, Payment BOI date of this Noti sh said BONDS be entitled to co BID as abandone I to such other ri	ement and fur. ND and certifice to you. within ten (10) nsider all your ed and as a for- ights as may be
the OWNER.	day of	, 19	:	
		Bv	Owner .	
	ACCEPTANCE			
Receipt of t	he above NOTICE OF		ereby acknowlec	lged
this the				_, 19
Title				

### NOTICE TO PROCEED

To:	Date:
	Project:
You are hereby notified to commence dated, 19, on or bare to complete the WORK within  The date of completion of all WORK is there	WORK in accordance with the Agreement before, 19, and you consecutive calendar days thereafter.
	, Owner
	Ву
	Title
ACCEPTANCE OF NOTICE	
Receipt of the above NOTICE TO PRO-	
CEED is hereby acknowledged by	
this theday	
of, 19	
Ву	•
Title	

### CHANGE ORDER

Order	r No
Date:	
Agree	ement Date:
NAME OF PROJECT:	
OWNER:	
CONTRACTOR:	
The following changes are hereby made to the CON	TRACT DOCUMENTS:
Justification:	,
Change to CONTRACT PRICE:	
Original CONTRACT PRICE \$	<del></del>
Current CONTRACT PRICE adjusted by previous (	CHANGE ORDER'S
The CONTRACT PRICE due to this CHANGE ORD	DER will be (increased) (decreased)
by: \$	
The new CONTRACT PRICE including this CHANG	E ORDER will be \$
Change to CONTRACT TIME:	
The CONTRACT TIME will be (increased) (decrease	·
The date for completion of all work will be	(Date).
Approvals Required: To be effective this Order must be approved by th scope or objective of the PROJECT, or as may othe MENTAL GENERAL CONDITIONS.	ne Federal agency if it changes the rwise be required by the SUPPLE-
Requested by:	
Recommended by:	
Ordered by:	
Accepted by:	
Federal Agency Approval (where applicable)	

Modifications to General Conditions required by a Federal agency for participation in the PROJECT and approved by the agency in writing prior to inclusion in the CONTRACT DOCUMENTS, or such requirements that may be imposed by applicable state laws.

- 1.24 SUPPLIER Any person or organization who supplies materials or equipment for the WORK, including that fabricated to a special design, but who does not perform labor at the site.
- 1.25 WORK-All labor necessary to produce the construction required by the CONTRACT DOCUMENTS, and all materials and equipment incorporated or to be incorporated in the PROJECT.
- 1.26 WRITTEN NOTICE—Any notice to any party of the Agreement relative to any part of this Agreement in writing and considered delivered and the service thereof completed, when posted by certified or registered mail to the said party at his last given address, or delivered in person to said party or his authorized representative on the WORK.

### 2. ADDITIONAL INSTRUCTIONS AND DETAIL DRAWINGS

- 2.1 The CONTRACTOR may be furnished additional instructions and detail drawings, by the ENGINEER, as necessary to carry out the WORK required by the CONTRACT DOCUMENTS.
- 2.2 The additional drawings and instruction thus supplied will become a part of the CONTRACT DOCU-MENTS. The CONTRACTOR shall carry out the WORK in accordance with the additional detail drawings and instructions.

### 3. SCHEDULES, REPORTS AND RECORDS

- 3.1 The CONTRACTOR shall submit to the OWNER such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records and other data where applicable as are required by the CONTRACT DOCUMENTS for the WORK to be performed.
- 3.2 Prior to the first partial payment estimate the CONTRACTOR shall submit construction progress schedules showing the order in which he proposes to carry on the WORK, including dates at which he will start the various parts of the WORK, estimated date of completion of each part and, as applicable:
- 3.2.1. The dates at which special detail drawings will be required; and
- 3.2.2 Respective dates for submission of SHOP DRAWINGS, the beginning of manufacture, the testing and the installation of materials, supplies and equipment.
- 3.3 The CONTRACTOR shall also submit a schedule of payments that he anticipates he will earn during the course of the WORK.

### 4. DRAWINGS AND SPECIFICATIONS

4.1 The intent of the DRAWINGS and SPECIFICA-TIONS is that the CONTRACTOR shall furnish all labor, materials, tools, equipment, and transportation necessary for the proper execution of the WORK in accordance with the CONTRACT DOCUMENTS and all incidental work necessary to complete the PROJECT in an acceptable manner, ready for use, occupancy or operation by the OWNER.

- 4.2 In case of conflict between the DRAWINGS and SPECIFICATIONS, the SPECIFICATIONS shall govern. Figure dimensions on DRAWINGS shall govern over scale dimensions, and detailed DRAWINGS shall govern over general DRAWINGS.
- 4.3 Any discrepancies found between the DRAW-INGS and SPECIFICATIONS and site conditions or any inconsistencies or ambiguities in the DRAWINGS or SPECIFICATIONS shall be immediate y reported to the ENGINEER, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. WORK done by the CONTRACTOR after his discovery of such discrepancies, inconsistencies or ambiguities shall be done at the CONTRACTOR'S risk.

### 5. SHOP DRAWINGS

- 5.1 The CONTRACTOR shall provide SHOP DRAW-INGS as may be necessary for the prosecution of the WORK as required by the CONTRACT DOCUMENTS. The ENGINEER shall promptly review all SHOP DRAWINGS. The ENGINEER'S approval of any SHOP DRAWING shall not release the CONTRACTOR from responsibility for deviations from the CONTRACT DOCUMENTS. The approval of any SHOP DRAWING which substantially deviates from the requirement of the CONTRACT DOCUMENTS shall be evidenced by a CHANGE ORDER.
- 5.2 When submitted for the ENGINEER'S review, SHOP DRAWINGS shall bear the CONTRACTOR'S certification that he has reviewed, checked and approved the SHOP DRAWINGS and that they are in conformance with the requirements of the CONTRACT DOCUMENTS.
- 5.3 Portions of the WORK requiring a SHOP DRAW-ING or sample submission shall not begin until the SHOP DRAWING or submission has been approved by the ENGINEER. A copy of each approved SHOP DRAWING and each approved sample shall be kept in good order by the CONTRACTOR at the site and shall be available to the ENGINEER.

### 6. MATERIALS, SERVICES AND FACILITIES

- 6.1 It is understood that, except as otherwise specifically stated in the CONTRACT DOCUMENTS, the CONTRACTOR shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete, and deliver the WORK within the specified time.
- 6.2 Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the WORK. Stored materials and equipment to be incorporated in the WORK shall be located so as to facilitate prompt inspection.
- 6.3 Manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the manufacturer.
- 6.4 Materials, supplies and equipment shall be in accordance with samples submitted by the CONTRAC-TOR and approved by the ENGINEER.
- 6.5 Materials, supplies or equipment to be incorporated into the WORK shall not be purchased by the

### GENERAL CONDITIONS

- 1 Definitions
- 2. Additional Instructions and Detail Drawings
- 3. Schedules, Reports and Records
- 4. Drawings and Specifications 5. Shop Drawings
- 6. Materials, Services and Facilities
- 7. Inspection and Testing
- 8. Substitutions
- 9. Patents
- 10. Surveys, Permits, Regulations
- 11. Protection of Work, Property, Persons
- 12. Supervision by Contractor
- 13. Changes in the Work
- 14. Changes in Contract Price
- 15. Time for Completion and Liquidated Damages
- 16. Correction of Work

#### DEFINITIONS 1.

- 1 1 Wherever used in the CONTRACT DOCU-MENTS, the following terms shall have the meanings indicated which shall be applicable to both the singular and plural thereof:
- ADDENDA-Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the CONTRACT DOCUMENTS. DRAWINGS and SPECIFICATIONS, by additions, deletions, clarifications or corrections.
- BID-The offer or proposal of the BIDDER submitted on the prescribed form setting forth the prices for the WORK to be performed.
- BIDDER-Any person, firm or corporation submitting a BID for the WORK.
- BONDS-Bid, Performance, and Payment Bonds and other instruments of security, furnished by the CONTRACTOR and his surety in accordance with the CONTRACT DOCUMENTS.
- CHANGE ORDER-A written order to the CON-TRACTOR authorizing an addition, deletion or revision in the WORK within the general scope of the CON-TRACT DOCUMENTS, or authorizing an adjustment in the CONTRACT PRICE or CONTRACT TIMÉ.
- CONTRACT DOCUMENTS-The contract, including Advertisement For Bids, Information For Bidders, BID, Bid Bond, Agreement, Payment Bond, Performance Bond, NOTICE OF AWARD, NOTICE TO PROCEED, CHANGE ORDER, DRAWINGS, SPECIFI-CATIONS, and ADDENDA.
- CONTRACT PRICE-The total monies payable to the CONTRACTOR under the terms and conditions of the CONTRACT DOCUMENTS.
- 1.9 CONTRACT TIME-The number of calendar days stated in the CONTRACT DOCUMENTS for the completion of the WORK.
- 1.10 CONTRACTOR-The person, firm or corporation with whom the OWNER has executed the Agreement.
- 1.11 DRAWINGS-The part of the CONTRACT DOCUMENTS which show the characteristics and scope of the WORK to be performed and which have been prepared or approved by the ENGINEER.

- 17. Subsurface Conditions
- 18. Suspension of Work, Termination and Delay
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- 28. Land and Rights-of-Way
- 29. Guaranty
- 30. Arbitration
- 31. Taxes
- 1.12 ENGINEER-The person, firm or corporation named as such in the CONTRACT DOCUMENTS
- 1.13 FIELD ORDER A written order effecting a change in the WORK not involving an adjustment in the CONTRACT PRICE or an extension of the CON-TRACT TIME, issued by the ENGINEER to the CON-TRACTOR during construction.
- 1.14. NOTICE OF AWARD-The written notice of the acceptance of the BID from the OWNER to the successful BIDDER.
- 1.15 NOTICE TO PROCEED Written communication issued by the OWNER to the CONTRACTOR authorizing him to proceed with the WORK and establishing the. date of commencement of the WORK.
- 1.16 OWNER-A public or quasi-public body or authority, corporation, association, partnership, or individual for whom the WORK is to be performed.
- 1.17 PROJECT-The undertaking to be performed as provided in the CONTRACT DOCUMENTS.
- 1.18 RESIDENT PROJECT REPRESENTATIVE The authorized representative of the OWNER who is assigned to the PROJECT site or any part thereof.
- 1.19 SHOP DRAWINGS-All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the CONTRACTOR, a SUBCONTRAC-TOR, manufacturer, SUPPLIER or distributor, which illustrate how specific portions of the WORK shall be fabricated or installed.
- 1.20 SPECIFICATIONS-A part of the CONTRACT DOCUMENTS consisting of written descriptions of a technical nature of materials, equipment, construction systems, standards and workmanship.
- 1.21 SUBCONTRACTOR An individual, firm or corporation having a direct contract with the CON-TRACTOR or with any other SUBCONTRACTOR for the performance of a part of the WORK at the site.
- 1.22 SUBSTANTIAL COMPLETION That date as certified by the ENGINEER when the construction of the PROJECT or a specified part thereof is sufficiently completed, in accordance with the CONTRACT DOCU-MENTS, so that the PROJECT or specified part can be utilized for the purposes for which it is intended.
- 1.23 SUPPLEMENTAL GENERAL CONDITIONS -

CONTRACTOR or the SUBCONTRACTOR subject to a chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller.

### 7. INSPECTION AND TESTING

- 7.1 All materials and equipment used in the construction of the PROJECT shall be subject to adequate inspection and testing in accordance with generally accepted standards, as required and defined in the CON-TRACT DOCUMENTS.
- 7.2 The OWNER shall provide all inspection and testing services not required by the CONTRACT DOCUMENTS.
- 7.3 The CONTRACTOR shall provide at his expense the testing and inspection services required by the CONTRACT DOCUMENTS.
- 7.4 If the CONTRACT DOCUMENTS, laws, ordinances, rules, regulations or orders of any public authority having jurisdiction require any WORK to specifically be inspected, tested, or approved by someone other than the CONTRACTOR, the CONTRACTOR will give the ENGINEER timely notice of readiness. The CONTRACTOR will then furnish the ENGINEER the required certificates of inspection, testing or approval.
- 7.5 Inspections, tests or approvals by the engineer or others shall not relieve the CONTRACTOR from his obligations to perform the WORK in accordance with the requirements of the CONTRACT DOCU-MENTS.
- 7.6 The ENGINEER and his representatives will at all times have access to the WORK. In addition, authorized representatives and agents of any participating Federal or state agency shall be permitted to inspect all work, materials, payrolls, records of personnel, invoices of materials, and other relevant data and records. The CONTRACTOR will provide proper facilities for such access and observation of the WORK and also for any inspection, or testing thereof.
- 7.7 If any WORK is covered contrary to the written instructions of the ENGINEER it must, if requested by the ENGINEER, be uncovered for his observation and replaced at the CONTRACTOR'S expense.
- If the ENGINEER considers it necessary or advisable that covered WORK be inspected or tested by others, the CONTRACTOR, at the ENGINEER'S request, will uncover, expose or otherwise make available for observation, inspection or testing as the ENGINEER may require, that portion of the WORK in question. furnishing all necessary labor, materials, tools, and equipment. If it is found that such WORK is defective, the CONTRACTOR will bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction. If, however, such WORK is not found to be defective, the CON-TRACTOR will be allowed an increase in the CON-TRACT PRICE or an extension of the CONTRACT TIME, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction and an appropriate CHANGE ORDER shall be issued.

#### 8. SUBSTITUTIONS

8.1 Whenever a material, article or piece of equip-

ment is identified on the DRAWINGS or SPECIFICA-TIONS by reference to brand name or catalogue number, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered. The CONTRACTOR may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the CONTRACT DOCUMENTS by reference to brand name or catalogue number, and if, in the opinion of the ENGINEER, such material, article, or piece of equipment is of equal substance and function to that specified, the ENGINEER may approve its substitution and use by the CONTRACTOR. Any cost differential shall be deductible from the CONTRACT PRICE and the CONTRACT DOCUMENTS shall be appropriately modified by CHANGE ORDER. The CONTRACTOR warrants that if substitutes are approved, no major changes in the function or general design of the PROI-ECT will result. Incidental changes or extra component parts required to accommodate the substitute will be made by the CONTRACTOR without a change in the CONTRACT PRICE or CONTRACT TIME.

#### 9. PATENTS

9.1 The CONTRACTOR shall pay all applicable royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and save the OWNER harmless from loss on account thereof, except that the OWNER shall be responsible for any such loss when a particular process, design, or the product of a particular manufacturer or manufacturers is specified, however if the CONTRACTOR has reason to believe that the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the ENGINEER.

### 10. SURVEYS, PERMITS, REGULATIONS

- 10.1 The OWNER shall furnish all boundary surveys and establish all base lines for locating the principal component parts of the WORK together with a suitable number of bench marks adjacent to the WORK as shown in the CONTRACT DOCUMENTS. From the information provided by the OWNER, unless otherwise specified in the CONTRACT DOCUMENTS, the CONTRACTOR shall develop and make all detail surveys needed for construction such as slope stakes, batter boards, stakes for pile locations and other working points, lines, elevations and cut sheets.
- 10.2 The CONTRACTOR shall carefully preserve bench marks, reference points and stakes and, in case of willful or careless destruction, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.
- 10.3 Permits and licenses of a temporary nature necessary for the prosecution of the WORK shall be secured and Laid for by the CONTRACTOR unless otherwise stated in the SUPPLEMENTAL GENERAL CONDITIONS. Permits, licenses and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the OWNER, unless otherwise specified. The CONTRACTOR shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the WORK as drawn and specified. If the CONTRACTOR

observes that the CONTRACT DOCUMENTS are atvariance therewith, he shall promptly notify the ENGINEER in writing, and any necessary changes shall be adjusted as provided in Section 13, CHANGES IN THE WORK.

### 11. PROTECTION OF WORK, PROPERTY AND PERSONS

- 11.1 The CONTRACTOR will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the WORK. He will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the WORK and other persons who may be affected thereby, all the WORK and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.
- 11.2 The CONTRACTOR will comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction. He will erect and maintain, as required by the conditions and progress of the WORK, all necessary safeguards for safety and protection. He will notify owners of adjacent utilities when prosecution of the WORK may affect them. The CONTRACTOR will remedy all damage, injury or loss to any property caused, directly or indirectly; in whole or in part, by the CONTRACTOR, any SUBCON-TRACTOR or anyone directly or indirectly employed by any of them or anyone for whose acts any of them be liable, except damage or loss attributable to the fault of the CONTRACT DOCUMENTS or to the acts or omissions of the OWNER or the ENGINEER or anyone employed by either of them or anyone for whose acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of the CONTRACTOR.
- 11.3 In emergencies affecting the safety of persons or the WORK or property at the site or adjacent thereto, the CONTRACTOR, without special instruction or authorization from the ENGINEER or OWNER, shall act to prevent threatened damage, injury or loss, He will give the ENGINEER prompt WRITTEN NOTICE of any significant changes in the WORK or deviations from the CONTRACT DOCUMENTS caused thereby, and a CHANGE ORDER shall thereupon be issued covering the changes and deviations involved.

### 12. SUPERVISION BY CONTRACTOR

12.1 The CONTRACTOR will supervise and direct the WORK. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The CONTRACTOR will employ and maintain on the WORK a qualified supervisor or superintendent who shall have been designated in writing by the CONTRACTOR as the CONTRACTOR's representative at the site. The supervisor shall have full authority to act on behalf of the CONTRACTOR and all comunications given to the supervisor shall be as binding as if given to the CONTRACTOR. The supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the WORK.

### CHANGES IN THE WORK

13.1 The OWNER may at any time, as the need arises,

order changes within the scope of the WORK without invalidating the Agreement. If such changes increase or decrease the amount due under the CONTRACT DOCUMENTS, or in the time required for performance of the WORK, an equitable adjustment shall be authorized by CHANGE ORDER.

13.2 The ENGINEER, also, may at any time, by issuing a FIELD ORDER, make changes in the details of the WORK. The CONTRACTOR shall proceed with the performance of any changes in the WORK so ordered by the ENGINEER unless the CONTRACTOR believes that such FIELD ORDER entitles him to a change in CONTRACT PRICE or TIME, or both, in which event he shall give the ENGINEER WRITTEN NOTICE thereof within seven (7) days after the receipt of the ordered change. Thereafter the CONTRACTOR shall document the basis for the change in CONTRACT PRICE or TIME within thirty (30) days. The CONTRACTOR shall not execute such changes pending the receipt of an executed CHANGE ORDER or further instruction from the OWNER.

### 14. CHANGES IN CONTRACT PRICE

- 14.1 The CONTRACT PRICE may be changed only by a CHANGE ORDER. The value of any WORK covered by a CHANGE ORDER or of any claim for increase or decrease in the CONTRACT PRICE shall be determined by one or more of the following methods in the order of precedence listed below:
  - (a) Unit prices previously approved.
  - (b) An agreed lump sum.
- (c) The actual cost for labor, direct overhead, materials, supplies, equipment, and other services necessary to complete the work. In addition there shall be added an amount to be agreed upon but not to exceed fifteen (15) percent of the actual cost of the WORK to cover the cost of general overhead and profit.

### 15. TIME FOR COMPLETION AND LIQUIDATED DAMAGES

- 15.1 The date of beginning and the time for completion of the WORK are essential conditions of the CONTRACT DOCUMENTS and the WORK embraced shall be commenced on a date specified in the NOTICE TO PROCEED.
- 15.2 The CONTRACTOR will proceed with the WORK at such rate of progress to insure full completion within the CONTRACT TIME. It is expressly understood and agreed, by and between the CONTRACTOR and the OWNER, that the CONTRACT TIME for the completion of the WORK described herein is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the WORK.
- 15.3 If the CONTRACTOR shall fail to complete the WORK within the CONTRACT TIME, or extension of time granted by the OWNER, then the CONTRACTOR will pay to the OWNER the amount for liquidated damages as specified in the BID for each calendar day that the CONTRACTOR shall be in default after the time stipulated in the CONTRACT DOCUMENTS.
- 15.4 The CONTRACTOR shall not be charged with liquidated damages or any excess cost when the delay in completion of the WORK is due to the following, and the CONTRACTOR has promptly given WRITTEN NOTICE of such delay to the OWNER or ENGINEER.
  - 15.4.1 To any preference, priority or allocation

order duly issued by the OWNER.

15.4.2 To unforeseeable causes beyond the control and without the fault or negligence of the CONTRACTOR, including but not restricted to, acts of God. or of the public enemy, acts of the OWNER, acts of another CONTRACTOR in the performance of a contract with the OWNER, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and abnormal and unforeseeable weather; and

15.4.3 To any delays of SUBCONTRACTORS occasioned by any of the causes specified in para-

graphs 15.4.1 and 15.4.2 of this article.

### CORRECTION OF WORK

- 16.1 The CONTRACTOR shall promptly remove from the premises all WORK rejected by the ENGINEER for failure to comply with the CONTRACT DOCUMENTS, whether incorporated in the construction or not, and the CONTRACTOR shall promptly replace and reseacute the WORK in accordance with the CONTRACT DOCUMENTS and without expense to the OWNER and shall bear the expense of making good all WORK of other CONTRACTORS destroyed or damaged by such removal or replacement.
- 16.2 All removal and replacement WORK shall be done at the CONTRACTOR'S expense. If the CONTRACTOR does not take action to remove such rejected WORK within ten [10] days after receipt of WRITTEN NOTICE, the OWNER may remove such WORK and store the materials at the expense of the CONTRACTOR.

### 17. SUBSURFACE CONDITIONS

- 17.1 The CONTRACTOR shall promptly, and before such conditions are disturbed, except in the event of an emergency, notify the OWNER by WRITTEN NOTICE of:
- 17.1.1 Subsurface or latent physical conditions at the site differing materially from those indicated in the CONTRACT DOCUMENTS; or
- 17.1.2 Unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in WORK of the character provided for in the CONTRACT DOCUMENTS.
- 17.2 The OWNER shall promptly investigate the conditions, and if he finds that such conditions do so materially differ and cause an increase or decrease in the cost of, or in the time required for, performance of the WORK, an equitable adjustment shall be made and the CONTRACT DOCUMENTS shall be modified by a CHANGE ORDER. Any claim of the CONTRACTOR for adjustment hereunder shall not be allowed unless he has given the required WRITTEN NOTICE; provided that the OWNER may, if he determines the facts so justify, consider and adjust any such claims asserted before the date of final payment.

### SUSPENSION OF WORK, TERMINATION AND DELAY

18.1 The OWNER may suspend the WORK or any portion thereof for a period of not more than ninety days or such further time as agreed upon by the CONTRACTOR. by WRITTEN NOTICE to the CONTRACTOOR and the ENGINEER which notice shall fix the date on which WORK shall be resumed. The CONTRACTOR

- will-resume that WORK on the date so fixed. The CONTRACTOR will be allowed an increase in the CONTRACT PRICE or an extension of the CONTRACT TIME, or both, directly attributable to any suspension.
- 18.2 If the CONTRACTOR is adjudged a bankrupt or insolvent, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the CONTRACTOR or for any of his property, or if he files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or applicable laws, or if he repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or if he repeatedly fails to make prompt payments to SUBCONTRACTORS or for labor, materials or equipment or if he disregards laws, ordinances. rules, regulations or orders of any public body having jurisdiction of the WORK or if he disregards the authority of the ENGINEER, or if he otherwise violates any provision of the CONTRACT DOCUMENTS, then the OWNER may, without prejudice to any other right or remedy and after giving the CONTRACTOR and his surety a minimum of ten (10) days from delivery of a WRITTEN NOTICE, terminate the services of the CON-TRACTOR and take possession of the PROJECT and of all materials, equipment, tools, construction equipment and machinery thereon owned by the CONTRAC-TOR, and finish the WORK by whatever method he may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the WORK is finished. If the unpaid balance of the CONTRACT PRICE exceeds the direct and indirect costs of completing the PROJECT, including compensation for additional professional services, such excess SHALL BE PAID TO THE CONTRACTOR. If such costs exceed such unpaid balance, the CONTRACTOR will pay the difference to the OWNER. Such costs incurred by the OWNER will be determined by the ENGINEER and incorporated in a CHANGE ORDER.
- 18.3 Where the CONTRACTOR'S services have been so terminated by the OWNER, said termination shall not affect any right of the OWNER against the CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of monies by the OWNER due the CONTRACTOR will not release the CONTRACTOR from compliance with the CONTRACT DOCUMENTS.
- 18.4 After ten [10] days from delivery of a WRITTEN NOTICE to the CONTRACTOR and the ENGINEER, the OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the PROJECT and terminate the Contract. In such case, the CONTRACTOR shall be paid for all WORK executed and any expense sustained plus reasonable profit.
- 18.5 If, through no act or fault of the CONTRACTOR, the WORK is suspended for a period of more than ninety (90) days by the OWNER or under an order of court or other public authority, or the ENGINEER fails to act on any request for payment within thirty (30), days after it is submitted, or the OWNER fails to pay the CONTRACTOR substantially the sum approved by the ENGINEER or awarded by arbitrators within thirty (30) days of its approval and presentation, then the CONTRACTOR may, after ten (10) days from delivery of a WRITTEN NOTICE to the OWNER and the ENGINEER, terminate the CONTRACT and recover from the OWNER payment for all WORK exe-

cuted and all expenses sustained. In addition and in lieu of terminating the CONTRACT, if the ENGINEER has failed to act on a request for payment or if the OWNER has failed to make any payment as aforesaid, the CONTRACTOR may upon ten [10] days written notice to the OWNER and the ENGINEER stop the WORK until he has been paid all amounts then due, in which event and upon resumption of the WORK, CHANGE ORDERS shall be issued for adjusting the CONTRACT PRICE or extending the CONTRACT TIME or both to compensate for the costs and delays attributable to the stoppage of the WORK.

18.6 If the performance of all or any portion of the WORK is suspended, delayed, or interrupted as a result of a failure of the OWNER or ENGINEER to act within the time specified in the CONTRACT DOCUMENTS, or if no time is specified, within a reasonable time, an adjustment in the CONTRACT PRICE or an extension of the CONTRACT TIME, or both, shall be made by CHANGE ORDER to compensate the CONTRACTOR for the costs and delays necessarily caused by the failure of the OWNER or ENGINEER.

### 19. PAYMENTS TO CONTRACTOR

19.1 At least ten (10) days before each progress payment falls due (but not more often than once a month), the CONTRACTOR will submit to the ENGINEER a partial payment estimate filled out and signed by the CON-TRACTOR covering the WORK performed during the period covered by the partial payment estimate and supported by such data as the ENGINEER may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the WORK but delivered and suitably stored at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the OWNER, as will establish the OWNER's title to the material and equipment and protect his interest therein. including applicable insurance. The ENGINEER will, within ten (10) days after receipt of each partial payment estimate, either indicate in writing his approval of payment and present the partial payment estimate to the OWNER, or return the partial payment estimate to the CONTRACTOR indicating in writing his reasons for refusing to approve payment. In the latter case, the CONTRACTOR may make the necessary corrections and resubmit the partial payment estimate. The OWN-ER will, within ten (10) days of presentation to him of an approved partial payment estimate, pay the CON-TRACTOR a progress payment on the basis of the approved partial payment estimate. The OWNER shall retain ten (10) percent of the amount of each payment until final completion and acceptance of all work covered by the CONTRACT DOCUMENTS. The OWNER at any time, however, after fifty (50) percent of the WORK has been completed, if he finds that satisfactory progress is being made, shall reduce retainage to five (5%) percent on the current and remaining estimates. When the WORK is substantially complete (operational or beneficial occupancy), the retained amount may be further reduced below five (5) percent to only that amount necessary to assure completion. On completion and acceptance of a part of the WORK on which the price is stated separately in the CONTRACT DOCU-MENTS, payment may be made in full, including retained percentages, less authorized deductions.

19.2 The request for payment may also include an allowance for the cost of such major materials and

equipment which are suitably stored either at or near the site.

19.3 Prior to SUBSTANTIAL COMPLETION, the OWNER, with the approval of the ENGINEER and with the concurrence of the CONTRACTOR, may use any completed or substantially completed portions of the WORK. Such use shall not constitute an acceptance of such portions of the WORK.

19.4 The OWNER shall have the right to enter the premises for the purpose of doing work not covered by the CONTRACT DOCUMENTS. This provision shall not be construed as relieving the CONTRACTOR of the sole responsibility for the care and protection of the WORK, or the restoration of any damaged WORK except such as may be caused by agents or employees of the OWNER.

19.5 Upon completion and acceptance of the WORK, the ENGINEER shall issue a certificate attached to the final payment request that the WORK has been accepted by him under the conditions of the CONTRACT DOCUMENTS. The entire balance found to be due the CONTRACTOR, including the retained percentages, but except such sums as may be lawfully retained by the OWNER, shall be paid to the CONTRACTOR within thirty (30) days of completion and acceptance of the WORK.

19.6 The CONTRACTOR will indemnify and save the OWNER or the OWNER'S agents harmless from all claims growing out of the lawful demands of SUB-CONTRACTORS, laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools, and all supplies, incurred in the furtherance of the performance of the WORK. The CONTRACTOR shall, at the OWNER'S request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the CONTRACTOR fails to do so the OWN-ER may, after having notified the CONTRACTOR, either pay unpaid bills or withhold from the CON-TRACTOR'S unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the CONTRACTOR shall be resumed, in accordance with the terms of the CONTRACT DOCUMENTS, but in no event shall the provisions of this sentence be construed to impose any obligations upon the OWNER to either the CONTRACTOR, his Surety, or any third party. In paying any unpaid bills of the CONTRACTOR, any payment so made by the OWNER shall be considered as a payment made under the CONTRACT DOCUMENTS by the OWNER to the CONTRACTOR and the OWNER shall not be liable to the CONTRACTOR for any such payments made in good faith.

19.7 If the OWNER fails to make payment thirty (30) days after approval by the ENGINEER, in addition to other remedies available to the CONTRACTOR, there shall be added to each such payment interest at the maximum legal rate commencing on the first day after said payment is due and continuing until the payment is received by the CONTRACTOR.

### 20. ACCEPTANCE OF FINAL PAYMENT AS RELEASE

20.1 The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER of all claims and all liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with this WORK and for every act and neglect of the OWNER and others relating to or arising out of this WORK. Any payment, however, final or otherwise, shall not release the CONTRACTOR or his sureties-from any obligations under the CONTRACT DOCUMENTS or the Performance BOND and Payment BONDS.

### 21. INSURANCE

- 21.1 The CONTRACTOR shall purchase and maintain such insurance as will protect him from claims set forth below which may arise out of or result from the CONTRACTOR'S execution of the WORK, whether such execution be by himself or by any SUBCONTRACTOR or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:
- 21.1.1 Claims under workmen's compensation, disability benefit and other similar employee benefit acts:
- 21.1.2 Claims for damages because of hodily injury, occupational sickness or disease, or death of his employees;
- 21.1.3 Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees:
- 21.1.4 Claims for damages insured by usual personal injury liability coverage which are sustained [1] by any person as a result of an offense directly or indirectly related to the employment of such person by the CONTRACTOR, or [2] by any other person; and
- 21.1.5 Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefrom.
- 21.2 Certificates of Insurance acceptable to the OWN-ER shall be filed with the OWNER prior to commencement of the WORK. These Certificates shall contain a provision that coverages afforded under the policies will not be cancelled unless at least fifteen [15] days prior WRITTEN NOTICE has been given to the OWN-ER.
- 21.3 The CONTRACTOR shall procure and maintain, at his own expense, during the CONTRACT TIME, liability insurance as hereinafter specified;
- 21.3.1 CONTRACTOR'S General Public Liability and Property Damage Insurance including vehicle coverage issued to the CONTRACTOR and protecting him from all claims for personal injury, including death, and all claims for destruction of or damage to property, arising out of or in connection with any

operations under the CONTRACT DOCUMENTS, whether such operations be by himself or by any SUBCONTRACTOR under him, or anyone directly or indirectly employed by the CONTRACTOR or by a SUBCONTRACTOR under him. Insurance shall be written with a limit of liability of not less than \$500,000 for all damages arising out of bodily injury, including death, at any time resulting therefrom, sustained by any one person in any one accident; and a limit of liability of not less than \$500,000 aggregate for any such damages sustained by two or more persons in any one accident. Insurance shall be written with a limit of liability of not less than \$200,000 for all property damage sustained by any one person in any one accident; and a limit of liability of not less than \$200,000 aggregate for any such damage sustained by two or more persons in any one accident.

- 21.3.2 The CONTRACTOR shall acquire and maintain, if applicable, Fire and Extended Coverage insurance upon the PROJECT to the full insurable value thereof for the benefit of the OWNER, the CONTRACTOR, and SUBCONTRACTORS as their interest may appear. This provision shall in no way release the CONTRACTOR or CONTRACTOR'S surety from obligations under the CONTRACT DOCUMENTS to fully complete the PROJECT.
- 21.4 The CONTRACTOR shall procure and maintain. at his own expense, during the CONTRACT TIME, in accordance with the provisions of the laws of the state in which the work is performed. Workmen's Compensation Insurance, including occupational disease provisions, for all of his employees at the site of the PROJECT and in case any work is sublet, the CONTRACTOR shall require such SUBCONTRACTOR similarly to provide Workmen's Compensation Insurance, including occupational disease provisions for all of the latter's employees unless such employees are covered by the protection afforded by the CONTRAC-TOR. In case any class of employees engaged in hazardous work under this contract at the site of the PROJECT is not protected under Workmen's Compensation statute, the CONTRACTOR shall provide, and shall cause each SUBCONTRACTOR to provide, adequate and suitable insurance for the protection of his employees not otherwise protected.
- 21.5 The CONTRACTOR shall secure, if applicable, "All Risk" type Builder's Risk Insurance for WORK to be performed. Unless specifically authorized by the OWNER, the amount of such insurance shall not be less than the CONTRACT PRICE totaled in the BID. The policy shall cover not less than the losses due to fire, explosion, hail, lightning, vandalism, malicious mischief, wind, collapse, riot, aircraft, and smoke during the CONTRACT TIME, and until the WORK is accepted by the OWNER. The policy shall name as the insured the CONTRACTOR, the ENGINEER, and the OWNER.

#### 22. CONTRACT SECURITY

22.1 The CONTRACTOR shall within ten [10] days after the receipt of the NOTICE OF AWARD furnish the OWNER with a Performance Bond and a Payment Bond in penal sums equal to the amount of the CONTRACT PRICE, conditioned upon the performance by

the CONTRACTOR of all undertakings, covenants, terms, conditions and agreements of the CONTRACT DOCUMENTS, and upon the prompt payment by the CONTRACTOR to all persons supplying labor and materials in the prosecution of the WORK provided by the CONTRACT DOCUMENTS. Such BONDS shall be executed by the CONTRACTOR and a corporate bonding company licensed to transact such business in the state in which the WORK is to be performed and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasurv Department Circular Number 570. The expense of these BONDS shall be borne by the CONTRACTOR. If at any time a surety on any such BOND is declared a bankrupt or loses its right to do business in the state in which the WORK is to be performed or is removed from the list of Surety Companies accepted on Federal BONDS, CONTRACTOR shall within ten [10] days after notice from the OWNER to do so, substitute an acceptable BOND (or BONDS) in such form and sum and signed by such other surety or sureties as may be satisfactory to the OWNER. The premiums on such BOND shall be paid by the CONTRACTOR. No further payments shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable BOND to the OWNER.

#### ASSIGNMENTS

23.1 Neither the CONTRACTOR nor the OWNER shall sell, transfer, assign or otherwise dispose of the Contract or any portion thereof, or of his right, title or interest therein, or his obligations thereunder, without written consent of the other party.

#### 24. INDEMNIFICATION

- 24.1 The CONTRACTOR will indemnify and hold harmless the OWNER and the ENGINEER and their agents and employees from and against all claims. damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the WORK, provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property including the loss of use resulting therefrom; and is caused in whole or in part by any negligent or willful act or omission of the CONTRAC-TOR, and SUBCONTRACTOR, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.
- 24.2 In any and all claims against the OWNER or the ENGINEER, or any of their agents or employees, by any employee of the CONTRACTOR, any SUBCON-TRACTOR, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the CONTRACTOR or any SUBCONTRAC-TOR under workmen's compensation acts, disability benefit acts or other employee benefits acts.
- 24.3 The obligation of the CONTRACTOR under this paragraph shall not extend to the liability of the ENGINEER, his agents or employees arising out of the preparation or approval of maps, DRAWINGS, opinions, reports, surveys, CHANGE ORDERS, designs or

#### SEPARATE CONTRACTS

25.1 The OWNER reserves the right to let other con-

SPECIFICATIONS.

tracts in connection with this PROJECT. The CON-TRACTOR shall afford other CONTRACTORS reason. able opportunity for the introduction and storage of their materials and the execution of their WORK, and shall properly connect and coordinate his WORK with theirs. If the proper execution or results of any part of the CONTRACTOR'S WORK depends upon the WORK of any other CONTRACTOR, the CONTRACTOR shall inspect and promptly report to the ENGINEER any defects in such WORK that render it unsuitable for such proper execution and results

- 25.2 The OWNER may perform additional WORK related to the PROJECT by himself, or he may let other contracts containing provisions similar to these. The CONTRACTOR will afford the other CONTRACTORS who are parties to such Contracts (or the OWNER, if he is performing the additional WORK himself), reasonable opportunity for the introduction and storage of materials and equipment and the execution of WORK, and shall properly connect and coordinate his WORK with theirs.
- 25.3 If the performance of additional WORK by other CONTRACTORS or the OWNER is not noted in the CONTRACT' DOCUMENTS prior to the execution of the CONTRACT, written notice thereof shall be given to the CONTRACTOR prior to starting any such additional WORK. If the CONTRACTOR believes that the performance of such additional WORK by the OWNER or others involves him in additional expense or entities him to an extension of the CONTRACT TIME, he may make a claim therefor as provided in Sections 14 and

#### SUBCONTRACTING 26

- 26.1 The CONTRACTOR may utilize the services of specialty SUBCONTRACTORS on those parts of the WORK which, under normal contracting practices, are performed by specialty SUBCONTRACTORS.
- 26.2 The CONTRACTOR shall not award WORK to SUBCONTRACTOR(s), in excess of fifty (50%) percent of the CONTRACT PRICE, without prior written approval of the OWNER.
- 26.3 The CONTRACTOR shall be fully responsible to the OWNER for the acts and omissions of his SUB-CONTRACTORS, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.
- 26.4 The CONTRACTOR shall cause appropriate provisions to be inserted in all subcontracts relative to the WORK to bind SUBCONTRACTORS to the CONTRAC-TOR by the terms of the CONTRACT DOCUMENTS insofar as applicable to the WORK of SUBCONTRAC-TORS and to give the CONTRACTOR the same power as regards terminating any subcontract that the OWN-ER may exercise over the CONTRACTOR under any provision of the CONTRACT DOCUMENTS.
- 26.5 Nothing contained in this CONTRACT shall create any contractual relation between any SUBCON-TRACTOR and the OWNER.

### 27. ENGINEER'S AUTHORITY

27.1 The ENGINEER shall act as the OWNER'S representative during the construction period. He shall decide questions which may arise as to quality and acceptability of materials furnished and WORK performed. He shall interpret the intent of the CONTRACT DOCUMENTS in a fair and unbiased manner. The ENGINEER will make visits to the site and determine if the WORK is proceeding in accordance with the CONTRACT DOCUMENTS.

- 27.2 The CONTRACTOR will be held strictly to the intent of the CONTRACT DOCUMENTS in regard to the quality of materials, workmanship and execution of the WORK. Inspections may be made at the factory or fabrication plant of the source of material supply.
- 27.3 The ENGINEER will not be responsible for the construction means, controls, techniques, sequences, procedures, or construction safety.
- 27.4 The ENGINEER shall promptly make decisions relative to interpretation of the CONTRACT DOCUMENTS.

### 28. LAND AND RIGHTS-OF-WAY

- 28.1 Prior to issuance of NOTICE TO PROCEED, the OWNER shall obtain all land and rights-of-way necessary for carrying out and for the completion of the WORK to be performed pursuant to the CONTRACT DOCUMENTS, unless otherwise mutually agreed.
- 28.2 The OWNER shall provide to the CONTRACTOR information which delineates and describes the lands owned and rights-of-way acquired.
- 28.3 The CONTRACTOR shall provide at his own expense and without liability to the OWNER any additional land and access thereto that the CONTRACTOR may desire for temporary construction facilities, or for storage of materials.

#### 29. GUARANTY

29.1 The CONTRACTOR shall guarantee all materials and equipment furnished and WORK performed for a period of one (1) year from the date of SUBSTANTIAL COMPLETION. The CONTRACTOR warrants and guarantees for a period of one (1) year from the date of SUBSTANTIAL COMPLETION of the system that the completed system is free from all defects due to faulty materials or workmanship and the CONTRACTOR shall promptly make such corrections as may be

necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects. The OWNER will give notice of observed defects with reasonable promptness. In the event that the CONTRACTOR should fail to make such repairs, adjustments, or other WORK that may be made necessary by such defects, the OWNER may do so and charge the CONTRACTOR the cost thereby incurred. The Performance BOND shall remain in full force and effect through the guarantee period.

### 30. ARBITRATION

- 30.1 All claims, disputes and other matters in question arising out of, or relating to, the CONTRACT DOCUMENTS or the breach thereof, except for claims which have been waived by the making and acceptance of final payment as provided by Section 20, shall be decided by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association. This agreement to arbitrate shall be specifically enforceable under the prevailing arbitration law. The award rendered by the arbitrators shall be final, and judgment may be entered upon it in any court having jurisdiction thereof.
- 30.2 Notice of the demand for arbitration shall be filed in writing with the other party to the CONTRACT DOCUMENTS and with the American Arbitration Association, and a copy shall be filed with the ENGINEER. Demand for arbitration shall in no event be made on any claim, dispute or other matter in question which would be barred by the applicable statute of limitations.
- 30.3 The CONTRACTOR will carry on the WORK and maintain the progress schedule during any arbitration proceedings, unless otherwise mutually agreed in writing.

### 31. TAXES

31.1 The CONTRACTOR will pay all sales, consumer, use and other similar taxes required by the law of the place where the WORK is performed.

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### SECTION 1: INTENT, SCOPE, AND GENERAL REQUIREMENTS

### 1.1 GENERAL INTENT

It is the declared intention of the Barbee Lakes Property Owners Association (BLPOA) to construct a dredge material placement (DMP) site on private property located on Little Barbee Lake adjacent to Putney Ditch, Koskiusco County, Indiana. The purpose of this DMP site will be to contain the dredge material which will be hydraulically removed from Lake Barbee and allow for solids separation, with ultimate discharge of effluent into Little Barbee Lake. Section 2 of Special Conditions describes the work associated with construction of the DMP site. Section 3 provides the general requirements and specifications for hydraulic dredging of sediment from the Putney Ditch channel and mouth area.

The Contractor shall accomplish all work, including such additional, extra and incidental work that may be considered necessary by the Administrator to complete the project in a satisfactory and acceptable manner, and shall furnish all plant equipment, tools, materials, labor and incidentals necessary to carry on the project to satisfactory completion within the time period specified and in strict accordance with the Contract Drawings and Specifications.

### 1.2 SCOPE OF WORK

Work under this Contract includes: the preparation of the Little Barbee Lake Dredge Site including, but not limited to, the hydraulic dredging of the Putney Ditch channel and mouth area and construction of all elements of the dredged material placement site; all in accordance with these Specifications.

### 1.3 TIME FOR COMPLETION

The Contractor will be required to commence work under this Contract within ten (10) calendar days after the date of receipt by him of the Notice to Proceed; to follow through and prosecute said work diligently, and to substantially complete construction of the dredge material placement site within sixty (60) calendar days after the Notice to Proceed; at which point in time the project will be in finished condition, as specified, and all temporary storage facilities, equipment, tools, and surplus and waste materials will have been removed from the work site. Upon satisfactory inspection of the dredge material placement site, the dredging component dredging will commence within ten (10) calendar days and be completed within thirty (30) calendar days.

### 1.4 BASIS OF PAYMENT

THIS IS A LUMP SUM CONTRACT IN WHICH NO EXTRAS ARE POSSIBLE. Should the contractor be required to perform work over and above that required by Contract Documents, he will be paid an extra, or shall credit the BLPOA as the case may be, on the basis of unit prices quoted in the bid proposal. Prices quoted shall be the same for "extra" work and for "credit" work and shall be the sum total compensation payable or creditable for such items of work, including all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc. to cover the finished work of the several kinds called for in the Specifications. Changes in payments shall be processed in accordance with the General Conditions. The lump sum bid given by the bidder in his proposal shall be the only recompense for completing the construction of the dredged material placement site and the dredging of the Putney Ditch channel and mouth.

The elevations of land and estimated quantities shown in the Contract Drawings and Specifications are made available as information held by the BLPOA, but the BLPOA assumes no responsibility that this information was complete or correct when obtained. Before submitting his bid, the bidder shall determine all information necessary to him in calculating risks, the degree of difficulty of the work, the quantities of materials, and a firm lump sum contract bid price. It is emphasized that the bidder must anticipate changes in the construction site not only before the start of construction, but during construction as well.

### 1.5 DEFINITIONS

The following definitions clarify, supplement, and/or amend those provided in the General Conditions.

ADMINISTRATOR - Shall mean the Administration of this project by the BLPOA or their duly appointed representative or agent(s) acting severally within the scope of the particular duties assigned to them. The Administrator will provide general administration of the Contract options, including performance of the functions hereinafter described; he will be the representative of the BLPOA during construction and until final payment; he will review shop drawings and samples and prepare change orders. The Administrator will be in the first instance the interpreter of the requirements of the Contract Documents, and will have authority to reject work which does not conform to the Contract Documents. The Administrator shall at all times have access to the work wherever it is in preparation or progress.

AS DIRECTED or REQUIRED - Whenever in the specifications, or accompanying drawings the words DIRECTED, REQUIRED, PERMITTED, ORDERED, DESIGNATED, PRESCRIBED, or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation, or prescription of the Administrator is intended. Similarly, the words APPROVED, SATISFACTORY, or words of like import shall mean approved by or acceptable or satisfactory to the Administrator.

BARBEE LAKES PROPERTY OWNERS ASSOCIATION, BLPOA - shall mean the party to which the contractor and Administrator are responsible to. The BLPOA will have the authority to terminate any or all work done in connection with the dredging, construction, or any activity conducted that they deem due to either dredging or construction activities. The BLPOA will be the sole determinant as to whether the work has been successfully completed and whether final payment can be made to the Contractor.

CHANGE ORDER - The authorized Representative of the BLPOA without invalidating the Contract, may order changes in the work within the general scope of the Contract, consisting of additions, deletions or other revisions, with the Contract sum and the Contract time being adjusted accordingly. All such changes in the work shall be authorized by a change order, and shall be executed under the applicable conditions of the Contract. A change order is a written order to the Contractor signed by the said Representative, issued after the execution of the Contract, authorizing a change in the work or an adjustment in the Contract sum or the Contract time. A Change Order may also be signed by the Contractor if he agrees to the adjustment in the Contract sum or the Contract time. The Contract sum and the Contract time may be changed only by a change order.

CONTRACT - The Contract Documents form the Contract. The Contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the bidding documents. The Contract may be amended or modified only by a modification.

CONTRACT DOCUMENTS - These Specifications and the Contract Drawings and addenda thereto, the bid proposal, and the Contract Agreement, and the bonds associated therewith, change orders, the Notice to Proceed, and all other papers attached or bound with the above documents or referred to therein comprise the Contract Documents.

CONTRACTOR - Refers to the Party of the Second Part (or his agents or subcontractors) who is (are) responsible for accomplishing all work of the project, as further designated elsewhere in the Specifications. The Contractor shall supervise and direct the work using his best skill and attention; he shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work. He shall employ a competent superintendent and necessary assistants who shall be in attendance at the job site during the progress of all options of the work. The Contractor shall at all times enforce strict discipline and good order among his employees and shall not employ on the work any unfit person, or anyone not skilled in the task assigned to him. He shall be responsible to the BLPOA for the acts and commissions of all his employees and all subcontractors, their agents and employees, and all other persons performing any of the work under a subcontract with the Contractor.

DEBRIS - Shall mean material or man-made trash, organic material including roots and stumps, and fill made of old construction materials.

DESIGN DRAWINGS. Reference to Design Drawings is synonymous with "drawings", "plans", and "engineering plans". In all cases, reference is made to the Contract Drawings, Sheets 1 through 4, entitled. "Little Barbee Lake, Dredge Material Placement Site".

DREDGED MATERIAL PLACEMENT SITE - The location, as specified in the Sheet 4 of the Contract Drawings, of the site to be used to contain the dredged material. The legal description of this parcel is as follows:

A tract of land located in the Northwest quarter of Section 28, Township 33 North, Range 7 East, 2nd p.m., Tippecanoe Township, Kosciusko County, Indiana containing 1.59 acres, more or less, more particularly described as follows:

Commencing at the Southwest corner of the Northwest quarter of said Section 28; thence North 00 degrees 00 minutes 00 seconds East (assumed bearing) along the west line of said northwest quarter, 1285.91 feet to the point of beginning; thence continuing north 00 degrees 00 minutes 00 seconds East, 171.62 feet to an iron pipe; thence south 89 degrees 59 minutes 41 seconds East, (South 90 degrees 00 minutes 00 seconds East recorded), along a fence line, 425.80 feet; thence South 16 degrees 28 minutes 08 seconds West, 182.11 feet; thence North 89 degrees 31 minutes, 57 seconds West, 374.19 feet to the point of beginning. The property is currently owned by Mrs. Sophia Kufrovish.

ENGINEER - The Engineer shall mean the duly authorized representative of the BLPOA.

INSPECTOR - The Inspector will be the duly authorized representative of the BLPOA with specific responsibilities for ensuring successful completion of each and all aspects of the work. The Inspector and the Engineer may or may not be the same individual.

MODIFICATION - A written amendment to the Contract signed by both parties, issued after the execution of the Contract authorizing, a change in the work not involving an adjustment in the Contract sum or extension of the Contract time.

WORK or PROJECT - The term "Work" or "Project" includes all labor necessary to produce the overall construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in such construction.

SOIL - Shall mean any earth material encountered which is not debris, foundations, piping, muck or rock.

UNSUITABLE MATERIAL- Shall mean any material which cannot be compacted to meet specifications requirements, which includes debris.

### 1.6 SUBCONTRACTING OF CONTRACT

If the Contractor intends to subcontract portions of the work, this intent shall be indicated shall be indicated as provided for in the Bid Documents. The Contractor shall not modify and/or add additional subcontracting without written approval by the BLPOA. No subcontracting of the work shall release the Contractor of his liability under the contract and bond.

The Contractor hall provide and maintain the proper plant, clerical support, and field personnel for proper management and coordination of subcontractors, and for providing and maintaining direct communication between the Contractor and the BLPOA. The Engineer shall not be required to deal directly with Subcontractors of the Contractor. Failure of the contractor to provide proper and qualified field management services will be cause for termination of the Contract.

### 1.7 SUBMISSION OF BIDS

It will be the responsibility of the Contractor to fully acquaint himself with the physical project site(s) and the nature of the work to be performed. The submission of a bid will represent a thorough understanding of all requirements of the Contract Documents by the Contractor, and will signify that the Contractor is in agreement with all of the terms and intent of the Contract Documents. Questions concerning conflicts within the documents, or technical questions, will be assumed to have been resolved prior to submittal of a bid. The BLPOA will not recognize claims for unanticipated costs resulting from a lack of preparedness, familiarity with site-specific requirements, or a lack of understanding of the Contract Documents.

### 1.8 AWARD OF CONTRACT

Award of a contract will be made to the responsive bidder based on the total bid amount. The BLPOA reserves the right to reject any and all bids if it is deemed to be in the best interest of the BLPOA.

### 1.9 PRE-CONSTRUCTION CONFERENCE

Prior to signing the Contract Documents and prior to beginning construction, a pre-construction conference will be held. Representatives of the Contractor, including any Subcontractors, the BLPOA, the Engineer, and other interested agencies and parties will be present to discuss the time and sequence of construction, methods and plans of operation, payment, and any other relevant issues. The Contractor will be informed of the time and location of the meeting by the BLPOA. A the pre-construction conference, a schedule of construction will be submitted by the Contractor for approval by the BLPOA. The schedule will show the time required for each element of the work, and the total time required to complete the project.

# SECTION 2: DREDGE MATERIAL PLACEMENT SITE

# 2.1 TEMPORARY WORK AND CONSTRUCTION

## 2.1.1 SCOPE

Includes necessary temporary items required in good safe construction practice and administration of the project. Items may be required in conjunction with work of permanent nature described in other sections of the Specifications.

# 2.1.2 TEMPORARY FACILITIES

Contractor to arrange for and pay for the following temporary services.

- (a) Electricity: As required for construction purposes.
- (b) Lighting: Adequate electric lighting for the work. Neither non-electric torches nor lanterns will be permitted.
- (c) Water: Potable, as required for construction purposes.
- (d) Sanitary Services: Temporary sanitary facilities as required by Law.

### 2.1.3 ERECTION OF SIGNS

- (a) Erect only the following signs on and about the project:
  - Small Signs: On the structures of Contractor and Subcontractor for the sole purpose of identification.
  - (2) Danger, Warning Signs, Etc.: As necessary.

# 2.1.4 NIGHT LIGHTING

Provide and maintain necessary temporary night lighting devices required to properly mark hazards and obstructions. Provide flashers where necessary.

### 2.2 CLEARING

# 2.2.1 SCOPE

The work discussed under this section includes the selective clearing of brush, shrubs, stumps, roots, stubs, organic materials, trees and debris moved from the dredged material placement site.

# 2.2.2 MATERIAL

(a) Pruning Paint - Use only a pruning paint specially formulated for horticultural application to cut or damaged plant tissue and approved for use on this work.

# 2.2.3 SITE ACCESS

(a) All access to the dredged material placement site must be via access routes specifically approved by the BLPOA. ALL TRUCK TRAFFIC MUST UTILIZE THIS ROUTE, and no traffic will be permitted to use any other access unless specifically authorized by the Administrator.

# 2.2.3 CONSTRUCTION METHODS

- (a) The dredged material placement site is shown on the Contract Drawings. The limits of construction for the disposal site will be marked by the BLPOA Inspector prior to construction. Final stake-out of the site will be performed by the Administrator prior to construction. The limits of the selective clearing and grubbing shall be within the earthen dike construction limits. Only that timber within this area, which would interfere with the earthen dike and the borrow excavation shall be cleared and grubbed. All remaining timber within this area shall be left standing.
- (b) The Administrator shall designate and clearly mark any trees, shrubbery and plants which are not to be removed and the Contractor shall protect them from any damage. No clearing or grubbing shall be performed without the approval of the Administrator. The adjacent woods shall not be damaged or disturbed by the Contractor's operations. Any such damages shall be repaired to the satisfaction of the Administrator at no additional cost.
- (c) The Contractor shall remove and dispose of all waste materials and debris off-site and in a land area furnished by the Contractor and approved by the Administrator.
- (d) All work shall be performed in accordance with Indiana State and local laws and/or ordinances.
- (e) Trimming of Trees: In company with the Administrator's Engineer or Inspector, ascertain the

limbs and roots which are to be trimmed and clearly mark them to designate the approved point of cutting. Cut evenly, using proper tools and skilled workmen to achieve neat severance with the least possible damage to the tree. Promptly coat the cut area with approved pruning paint in strict accordance with the manufacturer's recommendations. In the case of root cuts, apply wet burlap or other protection approved by the Administrator, as required, to prevent drying out, and in accordance with the Indiana Standards and Specifications for Soil Erosion and Sediment Control.

#### (f) Construction of Barricades

- (1) Layout: At all trees designated to be preserved and in immediate area of new construction, if required, construct a temporary barricade around the tree at the tree's approximate drip line. Make barricades at least three feet high, consisting of two-inch by four-inch or larger posts set in a least 18 inches into the ground at not more than six feet on centers, joined at the top by one inch by six inch or larger boards firmly nailed to the posts.
- (2) Protection: Take special care in setting posts to not damage tree roots. Do not permit stockpiling of materials or debris within the barricaded area nor permit the earth surface to be changed in any way except as specifically approved by the Engineer.
- (g) The Contractor shall take all necessary precautions and measures to protect all properties from damage. He shall repair all damage caused by his operations to all public or private property, including roads, utilities, trees, shrubs, planting, etc., and leave property in good condition and/or at least equivalent to the condition found, at the completion of the Contract unless specifically relieved of the responsibility by note on the Contract Drawings or in writing by the BLPOA.

#### 2.3 DREDGED MATERIAL PLACEMENT SITE PREPARATION

#### 2.3.1 SCOPE

The work discussed under this section includes the construction and installation of sediment control measures and practices, and the overall preparation of the dredged material placement site.

#### 2.3.2 MATERIALS

(a) Soils: Suitable natural soils excavated during construction shall be used in the earthen dike construction. The Contractor shall verify actual conditions and suitability of the on-site material for earthen dike construction during the excavation operation. If any on-site material is not suitable for dike construction, it shall be stockpiled in the area specified on the Contract

## Drawings.

- (b) Fence Materials: Note: The following are recommended specifications of the fence material to be used. The BLPOA Inspector will determine the suitability of the fence prior to installation. It is anticipated that the fence will be supplied by a third party; hence the Contractor will not be responsible for installation or for modifications of the fence if the Inspector determines that this is necessary. However, the Contractor will be responsible for damage to the fence that occurs as a result of construction related activities performed by the Contractor or his agents/employees.
  - (i) Fence fabric: Hot dip galvanized after weaving in accord with ASTM A-392, steel chain link No. 9 gauge wire woven in a 2 inch mesh with a minimum breaking strength of 1290 lbs. Minimum coating 1.2 ounces per square foot wire surface. Top selvage to have a barbed finish, barbing to be done by cutting the wire on bias, thus creating sharp points. Bottom selvage knuckled.
  - (ii) Posts, hardware, wire and other appurtenances: Hot dip galvanized with a minimum zinc coating of 1.8 ounces per square foot of surface.
  - (iii) Posts: Intermediate posts, 2-3/8" O.D. pipe, 3.65 pounds per lineal foot. Terminal posts, including end corner and pull posts 2-7/8 inch O.D. pipe, 5.79 pounds per lineal foot.
  - (iv) Truss rods: 3/8" diameter rods, galvanized with truss tightener.
  - (v) Gate Posts: Leaf width up to 6 feet: 2-7/8 inch O.D. pipe, 5.79 pounds per lin.ft. Leaf width 6 feet to 13 feet: 4 inch O.D. pipe, 9.11 pounds per linear foot.
  - (vi) Equip posts with malleable cast iron ornamental tops. Evenly space posts in line of fence, maximum distance of 10 feet on centers.
  - (vii) Posts of indicated length. Set pipe in 3000 pound concrete footings as detailed.
  - (viii) Top rail: To be used only for gates. 1-5/8 inch O.D. Standard weight pipe, 2.27 pounds per lineal foot, provided with outside sleeve type couplings approximately every 20 feet. Brace rails of same materials as top rail.
  - (ix) Bottom and Top Wire: Tension wire No. 7 gauge galvanized wire.
  - (x) Gate frame: 1.90 inch O.D. pipe 2.72 pounds per lineal foot. Welded joint or fitted with heavy fittings with rivets or bolts. Fabric filler same as fence. Provide with hinges, latch pad

locking device, keepers and stops, bracing and truss rods and gate hold backs to hold gates in the open position.

#### 2.3.3 CONSTRUCTION METHODS

- (a) Following the clearing operations, the Contractor shall install all sediment control measures and practices as shown on the Contract Drawings.
- (b) The soil obtained from the construction of the dredged material placement site shall be saved and cleaned of roots, brush or other extraneous material and placed in the stock pile area as delineated on the Contract Drawings. All disturbed areas on the placement site, including the dike top and outside slopes, shall be seeded as specified on the Contract Drawings. No payment for this work shall be made until the areas seeded show an adequate density and uniformity of grass to the satisfaction of the BLPOA. The seed mixture applied will have the following composition, on a per acre basis:
  - 50 pounds Reed canary grass
  - 35 pounds perennial rve
  - 25 pounds Kentucky bluegrass.

The seed mixture shall contain none of the following noxious weeds listed in the Acts of the General Assembly of the State of Indiana: Canada Thistle, Field Bindweed, Johnson Grass, Perennial Peppergrass, Perennial Sowthistle, Quack Grass, Russian Knapweed, or Wild Garlic. Seed will be purchased from sources of supply that have been sampled, tested, and reported by the State Seed Commission, Purdue University, and found to be satisfactory.

Prior to application of the seed mixture, the seed bed will be loosened to a depth of 3 inches. Fertilizer and agricultural limestone will be mixed and added to the upper two (2) inches of soil at a rate of 800 pounds per acre fertilizer and 1/2 ton per acre limestone.

Within 24 hours of seeding the vegetated area, mulch (straw; chaff; clover, timothy, alfalfa, or soy bean hay) will be applied at a rate of two (2) tons per acre. The mulch must be dry; such condition will be determined by the Inspector prior to placing the mulch. In addition, it cannot contain any noxious weeds. Following spreading of the mulch, the Contractor must anchor the mulch by application of erosion control netting, or a tackifier meeting ASTM D-977 specifications.

(c) The prepared ground surface beneath the dike area, after removal of the top soil and roots, shall be compacted such that the ground surface within the upper 18" depth attains at least 96% standard proctor density. If a sand and gravel layer is exposed at the dike foundations,

the material will be overexcavated by at least 2 feet and replaced with impervious material. The Contractor shall plan his combined excavation, placement and compaction operations, so that the most impervious materials shall be placed in the cutoff trench and inside face of the earthen dikes. The more pervious material shall be placed on the outside face. On slopes steeper than 5:1, the dikes will be bench cut into the original ground to eliminate a plane of slippage. Earth embankments shall be constructed in maximum 8 inch loose lifts and machine compacted to 96% standard proctor density. Compaction tests will be conducted as deemed necessary at the direction of the Administrator's designated inspector. If additional borrow material is required for dike construction, the contractor shall obtain the material as directed by the Administrator.

- (d) An orderly and uniform procedure shall be followed in placing, spreading, compacting, and shaping of the material as well as the construction and installation of the specified timber weir (riser) and pipe spillway. The procedure shall be in accordance with the requirements of the State of Indiana.
- (e) Upon completion of the earthen dikes, salvage topsoil shall be placed and spread over the outside slopes and the top of the earthen dikes. All the dikes shall receive permanent stabilization as specified in the Contract Drawings.
- (f) ALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ANY APPLICABLE STATE LAW OR REGULATION.
- (g) The chain-link fence around the perimeter of the placement site will be installed by a third party according to manufacturers specifications and according to the Contract Drawings. Prior to initiating any grading operations, the fence and gates will be secured. Contractor shall be informed of the date of installation by the BLPOA.

#### (h) Fence Installation

The fencing will be installed by a third party which will be responsible for both installation and removal of the fence. The following specifications are intended to serve as a guide to the third party on the requirements of the fence installation and the desired specifications of the fencing material. If the fence does not specifically meet these guidelines, the BLPOA Inspector will determine the suitability of the fence design and whether modifications will be required prior to installation. Any modification deemed necessary will be the responsibility of the third party, whose only role in the overall project is to supply, install, and remove the fence. Note: The Contractor will not be responsible for fence installation or removal, and should not build costs associated with the fencing into the total project bid.

- (1) The fence will be installed on lines and to grades as shown on drawings. Extend concrete post foundation approximately 2 inches above grade and slope away from post to assure proper drainage. Remove obstructions which in any manner interfere with erection of fence.
- (2) Line, terminal, pull, end posts shall be set into the concrete footers.
- (3) Stretch fabric to proper tension and securely fasten to terminal and gate posts using 1/4 inch by 3/4 inch tension bars with 11 gauge by 1 inch wide pressed steel bands spaced approximately 14 inches apart. Equip bands with 3/8 inch diameter carriage bolts and nuts. Fasten fabric to intermediate posts with 6 gauge wire clips spaced approximately 14 inches apart and to top wire and bottom wire with 9 gauge tie wire on approximately 24 inch centers.
- (4) Install gates plumb, level and secure for full opening without interference. Install ground set items in concrete for anchorage. Adjust and lubricate hardware for smooth operation.
- (5) The Contractor shall supply and install the minimum of one (1) two foot by two foot (2'x2') metal sign secured to the inside of the fence fabric every 150 feet reading "DANGER NO TRESPASSING VIOLATORS WILL BE PROSECUTED".
- (i) Dust control. Use all means necessary to prevent the spread of dust during performance of the work; thoroughly moisten all surfaces as required to prevent dust being a nuisance to the public, neighbors, and concurrent performance of other work on the site.
- (j) Protection: Use all means necessary to protect existing objects designated to remain and, in the event of damage, immediately make all repairs and replacements necessary to the approval of the Administrator's inspector at no additional cost to the BLPOA.

#### 2.3.4 NOISE CONTROL

All construction related activities shall be carried out in strict conformance with applicable local ordinances and/or day/night State noise standards if applicable. It shall be the prerogative of the BLPOA to determine whether night-time work will be acceptable.

#### 2.3.5 CLEANING UP

The Contractor shall at all times keep the construction area, including storage areas used by him, free from accumulations of waste materials or rubbish, and prior to completion of the work remove any rubbish from the premises and all tools, scaffolding, equipment, and materials used in construction. Upon completion of the construction, the Contractor shall leave the work and premises in a clean, neat and

workmanlike condition satisfactory to the BLPOA.

#### 2.3.6 WORKING TIME

The Contractor will be allowed to work the Dredged Material Placement Site aspect of this project Monday through Friday, dawn to dusk. Work on weekends may be allowed but will require authorization by the BLPOA.

#### 2.4 DRAINAGE STRUCTURE

#### 2.4.1 SCOPE

The work under this Section includes the furnishing, installation and backfilling of the drainage structures in strict accordance with the Specifications and Contract Drawings.

#### 2.4.2 MATERIALS

- (a) <u>Corrugated Metal Pipe</u>: The 15" corrugated metal pipe (CMP) to be installed from the weir box of the Basin shall be specified according to AASHTO M36 and according to the Contract Drawings.
  - The 15" CMP from the outside toe of slope of the Basin to Little Barbee Lake shall be specified as AASHTO-M 36, welded seam, with re-rolled ends, Hugger bands with bar and strap connector, flat 12" wide neoprene gaskets, Aluminized Type 2 corrugated steel pipe. The pipe anchors are as detailed on the Contract Drawings and are shop fabricated.
- (b) <u>Timber</u>: All structural timber shall be construction grade, southern yellow pine # 1 Dense, SAS. Plywood shall be 1" (5 ply) Marine Grade.
- (c) <u>Hardware</u>: All hardware shall be Grade A steel meeting ASTM spec. A307.
- (d) Pipe Anchor: Pipe anchor shall be as specified on Contract Drawings.

#### 2.4.3 CONSTRUCTION METHODS

(a) The timber box riser shall be rigidly constructed, secured and sealed to the pipe barrel by use of concrete collar and mastic as specified on Contract Drawings. All connections shall be watertight by welding, mortar or other approved joining methods and materials. The riser shall have a concrete floor and anchor deck as specified on Contract Drawings. It is the Contractor's responsibility to insure that the anchor deck is securely attached to the framework for the weirbox structure.

- (b) The sections of corrugated metal pipe shall be connected with water tight metal connecting bands and 12" wide neoprene seals. The anti-seep collars shall be securely welded to the outside of the pipe to form a watertight seal.
- (c) The box riser and pipe barrel shall be placed on a firm, smooth earth foundation compacted to 96% standard proctor. Impervious fill material shall be hand-compacted by mechanical tamper to the density of the embankment in 4-inch layers around the pipe. A minimum of two (2) feet of compacted backfill shall be placed over the pipe before crossing it with construction equipment.
- (d) The pipe exiting the Basin will extend to Little Barbee Lake as shown on the Contract Drawings. All pipe section joints shall be strapped with watertight bands and 12" wide neoprene seals as specified on Contract Drawings. The pipe will be anchored to the existing grade with pipe anchors as specified on the Contract Drawings.
- (e) The discharge pipe shall follow the course shown on the Contract Drawings to extend to the water surface of Little Barbee Lake. In order to minimize scour of the lake bottom, the discharge pipe will end in a shop manufactured deflector pipe extending at a 45 degree angle upward toward the surface.

# **SECTION 3: DREDGING**

#### 3.1 SCOPE

The work discussed under this section includes the preparation of Little Barbee Lake for dredging, the hydraulic dredging of an existing channel adjacent to the lake, and the placement of the dredged material in the dredged material placement site. In addition, the Contractor will remove submerged aquatic vegetation (SAV) from the area to be dredged, if necessary.

#### 3.2 METHODS

- (a) The Contractor shall coordinate with the Administrator during all of the dredging operations.
- (b) All submerged aquatic vegetation (SAV) growing in the areas to be dredged will be harvested by the Contractor <u>just prior</u> to initiating the dredging work, in order to minimize organic content of the dredged material. The harvested SAV shall be transported by the Contractor to a disposal site approved by the Administrator.
- (c) Prior to initiation of the dredging work, the BLPOA Inspector will stake the limits of the area to be dredged, shown on Sheet No. 1 of the contract drawings.
- (d) Dredging is to be accomplished using a hydraulic dredge. It is estimated that 2,000 cubic yards of material is to be removed. However, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE CHARACTER, QUALITY AND QUANTITY OF THE MATERIAL TO BE ENCOUNTERED AND SHALL SUBMIT HIS BID AS A LUMP SUM PRICE WHICH INCLUDES ALL COSTS INVOLVED IN THE DREDGING OF THE LAKE AND CHANNEL, AS WELL AS THOSE COSTS ASSOCIATED WITH TRANSPORT OF THE DREDGED MATERIAL TO THE DISPOSAL AREA AND SATISFACTORY COMPLETION OF THE PROJECT.

All dredging and construction related activities shall be carried out <u>in strict conformance</u> with the day/night noise standards that may be applicable.

(e) Contractor shall begin dredging operations in the channel upstream from the lake and dredge toward the lake. Dredging the specified area in the lake will follow. The channel and lake shall be dredged in such a manner that, upon completion of the Contract work, a post-dredge survey conducted by the BLPOA Inspector shall show the minimum depth and wid a of channel and lake cut as specified in the Contract Drawings. Depth and elevations shall be measured from mean low water (M.L.W.) with M.L.W. understood to mean zero depth and zero elevation. BLPOA shall establish a Contract vertical datum by establishing a bench mark

relating as closely as is practicable to M.L.W. THIS BENCH MARK SHALL BE THE SOLE DATUM FOR MEASURING THE CONTRACT WORK AND NO OTHER BENCH MARKS WHICH MAY BE FOUND IN THE AREA SHALL BE USED.

To cover the inaccuracies of the dredging process, the Contractor may elect to dredge deeper than the required minimum depth, up to a depth of 6 inches greater than that shown in the Contract drawing. The channel width may not be exceeded. If these limitations prove inadequate, then the contractor shall bring this immediately to the attention of the Administrator. IT SHALL BE UNDERSTOOD THAT THE CONTRACTOR HAS INCLUDED ANY EXCESS IN HIS LUMP SUM BID AND THAT NO ADDITIONAL PAYMENT SHALL BE ALLOWED. Any material dredged exceeding these dimensions shall be classified as misplaced material and subject to the provisions of Section 3.4 of this Section.

- (f) The typical dredged channel shall have a finished bottom depth and width as specified on the Contract Drawings with minimum 3:1 side slopes. The channel will be staked by the BLPOA Engineer to square cut or to bottom width, selected at the Contractors discretion. This shall be checked by a hydrographic survey performed by the BLPOA after completion of the work and prior to final payment. In the event that a slope has not completely formed from a vertical cut by the time the Contract work has been completed, and prior to the final payment, the BLPOA Inspector shall be the judge as to the sufficiency of the vertical cut to allow eventual repose of this particular type of slope without encroachment into the channel or lake. When the site and vicinity of the work are found to be in satisfactory condition and disposal has been completed in accordance with these Specifications, the dredging will be accepted finally.
- (g) The dredged material shall be continuously piped from the dredge and hydraulically transported for placement within the dredged material placement site shown on the Contract Drawings. The use of natural or artificial flumes outside the placement area to assist in dredged material transport shall not be permitted. The HDPE dredge pipe shall discharge into the dredged material placement site at the location designated on the Contract Drawings. The dredge pipeline is to have watertight joints to prevent leaks of material. The HDPE pipeline shall be placed only within locations approved by the BLPOA. The Contractor shall not block natural or artificial channels, streams, gullies, ditches, other drainage courses, roads or other installations with dredged material overflow. The dredged material is to be pumped into the placement site with the effluent flow directed toward the timber weir box. As deposits build up, pipe extensions are to be added toward the timber weir box and pumping continued. The discharge spoil shall be evenly distributed throughout the spoil area without scouring or undercutting of the perimeter dikes.
- (h) If required, a booster pump shall be installed in the hydraulic line carrying the dredged material to the placement site. The booster pump shall be located on Little Barbee Lake at

a site approved by the BLPOA.

- (i) The Contractor shall maintain continual surveillance of the dredge pipeline, the dredged material placement site, and the outfall pipe. If the situation arises that could lead to a potential leak of dredged material, then the contractor shall immediately cease operations and remedy the situation. If such occurs, the Contractor shall take immediate steps to remove the dredged material from the water, and from all non-approved areas and return same to the placement site. Included in the lump sum bid shall be the cost of providing and maintaining through the completion of the job all dikes, embankments or bulkheads with associated installations such as weirs for confinement of the spoil within the designated areas. When notified by the Department, either to his office or his foreman at the job site, of any violation of the foregoing provisions, the Contractor shall take immediate corrective action. Should the Contractor refuse or fail to promptly correct such violation, the Department will order all or part of the work stopped, pending correction. The Contractor shall not claim or be entitled to an extension of Contract completion time, excess costs or damages due to time lost by such a stop order.
- (j) The Contractor shall maintain continuous radio contact between the dredge and the dredged material placement site throughout the pumping operations, as well as during inspection of the dredge inflow pipe and all drainage outfall structures. Should the Contractor refuse or fail to promptly correct any violation, the Administrator will order all or part of the work stopped, pending correction. The Contractor shall not claim or be entitled to an extension of Contract completion time, excess costs or damages due to time lost by such a stop order.

### 3.3 OBSTRUCTION OF BOAT TRAFFIC

The Contractor will be required to conduct the work in such manner as to minimize obstruction to boat traffic in the vicinity. Upon completion of the work the Contractor shall promptly remove his plant, including ranges, buoys, piles and other marks placed by him under the Contract in navigable water or on shore.

### 3.4 MISPLACED MATERIAL

Should the Contractor, during the progress of the work, lose, dump, throw overboard, sink or misplace any material, plant, machinery, or appliance, which in the opinion of the BLPOA may be dangerous to boating or other recreational uses, or violates permits, the Contractor shall recover and remove the same with the utmost dispatch. The Contractor shall give in nediate notice with description and location of such obstructions, to the Administrator, and when required shall mark or buoy such obstructions until the same are removed. Should the Contractor refuse, neglect, or delay compliance with the above requirements, such obstructions may be removed by the BLPOA and the cost of such removal

may be deducted from any money due or to become due to the Contractor, or may be recovered under his bond.

### 3.5 WORKING TIME

The Contractor shall be allowed to work the dredging aspect of this project from dawn to dusk, five days a week. Weekend or night-time work may be conducted on approval of the BLPOA. Approval of after-darkness work will be based on, but not limited to, the Contractor's capability to provide adequate night lighting on all equipment, pipelines, construction materials, or vehicles in the area or on the lake.

#### SECTION 4. DECONSTRUCTION

#### 4.1 SCOPE

This contract will also include deconstruction of the sedimentation basin and restoration of the project site to a vegetated condition. The work to be accomplished as part of this task will include removal of the dikes and associated structures, grading and leveling the area formerly occupied by the basin, and revegetation of the disturbed area. <u>Deconstruction will not commence without prior authorization by the BLPOA.</u> The BLPOA Inspector will determine whether the sediments contained in the basin are sufficiently dry prior to authorizing the Contractor to proceed with deconstruction.

### 4.1.1 Use of Dredged Material

The BLPOA will examine the dried sediments following the de-watering period to evaluate potential uses of the material. No removal of the dried sediments by the Contractor will be authorized without consent of the BLPOA.

#### 4.1.2 Revegetation

Revegetation will be conducted according to the following specifications (identical to the methods described in Section 2.3.3 (b)).

The graded and leveled area within the former basin will be treated as a critical area and reseeded using a R (rural) seed mixture applied at a rate of 110 pounds/acre. The mixture will have the following composition (on a per acre basis):

- 50 pounds Reed canary grass
- 35 pounds perennial rye
- 25 pounds Kentucky bluegrass.

The seed mixture shall contain none of the following noxious weeds listed in the Acts of the General Assembly of the State of Indiana: Canada Thistle, Field Bindweed, Johnson Grass, Perennial Peppergrass, Perennial Sowthistle, Quack Grass, Russian Knapweed, or Wild Garlic. Seed will be purchased from sources of supply that have been sampled, tested, and reported by the State Seed Commission, Purdue University, and found to be satisfactory.

Prior to application of the seed mixture, the seed bed will be loosened to a depth of 3 inches. Fertilizer and agricultural limestone will be mixed and added to the upper two (2) inches of soil at a rate of 800 pounds per acre fertilizer and 1/2 ton per acre limestone.

Within 24 hours of seeding the vegetated area, mulch (straw; chaff; clover, timothy, alfalfa, or soy bean hay) will be applied at a rate of two (2) tons per acre. The mulch must be dry; such condition will be determined by the Inspector prior to placing the mulch. In addition, it cannot contain any noxious weeds. Following spreading of the mulch, the Contractor must anchor the mulch by application of erosion control netting, or a tackifier meeting ASTM D-977 specifications.

### 4.1.3 Disposition of Structures and Equipment

The weir box and all other structural timber and hardware built and/or installed by the Contractor for the purposes of fulfilling this contract shall be removed and will be the property of the Contractor. The 15 inch corregated metal outflow pipe and the associated couplings, anchors, etc., is the property of the BLPOA, and will be removed by the Contractor, broken down into manageable sections, and placed at a location to be determined by the BLPOA. Damage to the pipe during installation, removal, or transport by the Contractor or his agents/employees will be the responsibility of the Contractor. The chain link fence and all associated hardware and footings will be removed by a third party.